


X620 Series Switch Quick Reference

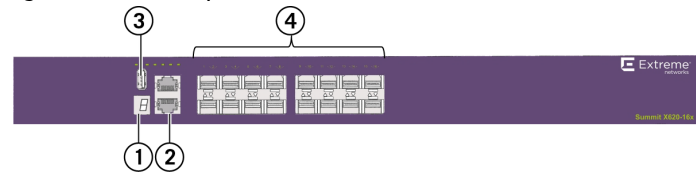
-  **Electrical Hazard:** Only qualified personnel should perform installation procedures.
- Risques d'électrocution:** Seul un personnel qualifié doit effectuer les procédures d'installation.

For complete installation instructions see the *Extreme Networks Summit Family Hardware Installation Guide* at: www.extremenetworks.com/documentation

Hardware Components

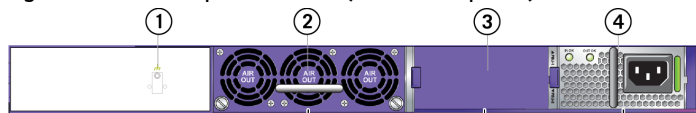
The following figures display the front and rear panel ports, LEDs, and hardware components on a typical X620 switch. See the *Extreme Networks Summit Family Hardware Installation Guide* for component details.

Figure 1 X620 Sample Front Panel



- Stack LED
- Console/Management ports
- USB port
- 100Mb/1Gb/10GBASE-X SFP+ ports

Figure 2 X620 Sample Rear Panel (Modular AC power)



- Grounding Lug
- Fan Module
- Blank Panel
- AC Power Supply

Figure 3 X620 Sample Rear Panel (Integrated AC power)




- Grounding Lug
- Redundant Power Input
- AC Power Socket


Installation Site Requirements

The installation site must be within reach of the network cabling and meet the requirements listed below:


- Appropriate grounded power receptacles must be located within six feet of the site.
- A temperature of between 0°C (32°F) to 50°C (122°F) with fluctuations of less than 10°C (18°F) per hour must be maintained.

-  **Caution:** To ensure proper ventilation and prevent overheating, leave a minimum clearance space of 7.6 cm (3.0 in.) on both sides (front and rear) of the device.

Attention: Pour assurer une bonne ventilation et éviter une surchauffe, laissez un espace de dégagement minimum de 7,6 cm (3,0 po.) Des sur les deux côtés (avant et arrière) de l'appareil.

-  **Warning:** A readily accessible disconnect device shall be incorporated in the building installation wiring.
- Avvertimento:** Un dispositivo di disconnessione facilmente accessibile doit être incorporé dans l'installation électrique du bâtiment.

Handling the Switch

-  **Caution:** The switch can be damaged by electrostatic discharge.

To prevent electrostatic damage, attach an electrostatic discharge (ESD) wrist strap to your wrist before handling the switch.

Unpack the switch as follows:


- Remove the packing material protecting the switch.
- Remove the tape seal on the non-conductive bag to remove the switch.
- Perform a visual inspection of the switch for any signs of physical damage. Contact Extreme Networks if there are any signs of damage. See "Getting Help" for more information on contacting Extreme Networks.

Installing the X620 Series Switch

You can install a X620 Series switch in a rack. There are four possible rack mounting configurations, depending upon whether:

- The switch I/O ports or the power supply side of the device face front
- The device is mounted flush with the rack posts or mid-mounted

Verify Fan Module and Power Supply Air Flow


-  **Caution:** For systems with removable power supply and fan modules, ensure that the power supply and fan module air flow are in the same direction in order to properly cool the installed X620 system.


Air flow direction is always from the perspective of the cool air intake aisle (front of rack) to the hot air exhaust aisle (rear of rack). Air flow can be either from:

- The switch I/O port side to the power supply side (front to back)
- The power supply side to the switch I/O port side (back to front)

Before installing a power supply into a X620 series switch, perform a visual verification that both power supply and fan module air flows agree with the intended configuration.

Secure the X620 Series switches to the Rack


-  **Caution:** Before rack-mounting the device, ensure that the rack can support it without compromising stability. Otherwise, personal injury and/or equipment damage may result.

-  **Note:** The rack mounting brackets provide two holes for securing the X620 Series switches to the rack. Use two screws or fasteners appropriate to your rack on each side when securing the X620 Series switch to the rack.

To secure the X620 Series switches to the rack:

- Attach the mounting brackets to the sides of the switch using six screws for each bracket.
- Align the rack mount ear holes with the front rack post holes.
- Secure the X620 Series switches to each rack post with two screws or fasteners appropriate to the rack.


Install Optical Transceivers


-  **Warning:** LASER RADIATION
Fiber-optic ports use Class 1 or Class 1M lasers. DO NOT EXPOSE USERS OF TELESCOPIC OPTICS
Do not use optical instruments to view laser output. The use of optical instruments to view laser output increases eye hazard. Use only UL/CSA, EN60825-1/-2 recognized pluggable modules.
Avvertissements: RAYONNEMENT LASER
Ports de fibres optiques utilisent des lasers de classe 1 ou de classe 1M.
NE PAS exposer les utilisateurs de télescopique OPTIQUE.
Ne pas utiliser d'instruments optiques pour voir la sortie du laser.
L'utilisation de instruments optiques pour afficher la sortie laser augmente les risques oculaires. Utilisez uniquement UL / CSA, EN60825-1 / -2 reconnu modules enfichables.


This installation procedure applies to all optical transceivers. To install a transceiver in a X620 Series switch:

- Attach the anti-static wrist strap to your wrist and connect the metal end to an appropriate ground point on the rack.
- Remove the optical transceiver from the packaging.
- If there is a protective dust cover on the connector, remove it at this time.
- Hold the optical transceiver so that the connector will seat properly.
- Carefully align the optical transceiver with the port slot.
- Push the optical transceiver into the port slot until the transceiver clicks and locks into place.


Connect Power to the Switch

-  **Warning:** Extreme Networks power supplies do not have switches for turning the unit on and off. Disconnect all power cords to remove power from the device before servicing. Make sure that these connections are easily accessible.

-  **Warning:** A dedicated Listed circuit breaker rated at 15A is to be used for each power supply connection.

-  **Warning:** Always make sure that the DC circuit is de-energized before connecting or disconnecting DC power cables.

You can connect to a single, primary source of power, or to two sources of power for redundancy.

-  **Note:** Installing the system as described in this guide meets the protective earth grounding requirements of the National Electrical Code (NEC) UL 60950 and IEC 60950 standards. However, in some cases, it may be necessary to use an alternative grounding method. In these cases, a 14 AWG wire can be connected between the ground lug on the chassis and a nearby building ground point.

To power-up your X620 Series switch, do the following:

- For AC powered units, connect the AC power cord to the AC power input socket on the switch and an AC power outlet.
- For DC powered switches, first verify the DC circuit is de-energized and then do the following:
 - Identify the grounding lug on the back of the switch. The grounding lug is the middle screw of the power connector panel, identified by the international symbol for earth ground.
 - Connect the spade terminal end of the ground wire to the grounding lug on the back of the switch with the M4x0.7 screw provided and the other end to a reliable earth ground. Use stranded copper wire, minimum size 14 AWG maximum size 6 AWG.
 - Using a cross-head (Phillips) torque screwdriver, tighten the retaining screw to 20 pound-inches (2.25 Newton-meters).
 - Connect the DC power input cables to the DC input terminal block on the rear of the switch.
 - Energize the circuit.
- If applicable, attach the cable from your redundant power supply (RPS) into the X620 Series switch's redundant power supply receptacle.

- Once power is connected, verify that the PSU LED and RPS LED (if applicable) turns green. If the PSU and RPS LEDs do not turn green, refer to the *Extreme Networks Summit Family Hardware Installation Guide* for troubleshooting information.

Selection of Power Cords

Extreme Networks does not include any power input cords. To purchase the correct power cord for your specific country, refer to www.extremenetworks.com/product/powercords/ for power cord details to purchase a cord from Extreme Networks or your local supplier.

Initial Network Connection and Configuration

Managing your X620 with ExtremeCloud? - Point your browser to ezcloudx.com/quickstart to get started.

Otherwise, when you have connected power to the switch and verified LED activity, complete the setup process as follows:

- Connect a management station to the console port using either an Ethernet to serial adapter or DB-9 serial cable.
- Verify that the system LEDs are on (solid green or blinking green).
- Using PuTTY, TeraTerm, or other terminal emulator, connect to the switch using the serial port connection. Be sure that your serial connection is set properly:
 - 9600 baud
 - 8 data bits
 - 1 stop bit
- Using the console session, perform the following:
 - At the password prompt, press ENTER (RETURN) twice.
 - Enter user: admin
 - For the initial password, simply press ENTER.
 - Follow the screen prompts for initial configuration.
 - Enter the `show version` command. Record the switch serial number. The following is example output with the serial number in bold:

```
Transit.3 # show version
Switch : 800444-00-05 0723G-01234 Rev 5.0 BootROM:
```
- Go to Extreme Networks eSupport at: <https://esupport.extremenetworks.com>
- After logging in, go to the [product registration page](#).
- Enter the serial number of the switch.
- Download the software to your PC from the [software download page](#).
- Connect back to the switch using the console port and connect an Ethernet cable from the management port on the switch to your PC.
- You might need to reset the IP address on your PC to some address (for example, 10.10.10.10 255.255.255.0) to avoid IP conflict.
- At the switch, set the IP address of the switch - for example, enter:

```
con mgmt ipa 10.10.10.9/24
```
- Enter `save config` to save your configuration.
- Start a TFTP session using a program such as TFTPd64. Point the TFTP server to your PC IP address and the ExtremeXOS image file saved on your PC.
- At the switch, download the new software to the switch.
Example: `download image 10.10.10.10 EXOS_level.xos`
- Install the software after it loads by entering Y when prompted if you want to install the load.
- When the download and install have finished, reboot the switch when prompted.
Enter: `reboot`

Optional CLI Commands

Once logged into the switch you can create new VLANs by issuing the following two commands:

- `create vlan <vlan name>`
- `configure vlan <vlan name> tag XXXX` (replace XXXX with the VLAN tag number - options are 1-4096)

These two commands will create a VLAN, give it a logical name, and assign a tag number.

To configure a Default Gateway in the Extreme Networks CLI, enter:
`configure iproute add default <IP Address>`

Port Configuration CLI Commands

For additional port configuration CLI commands, refer to the *ExtremeXOS Command Reference Guide* at: www.extremenetworks.com/documentation.

Specifications

Temperature and Humidity

Operating Temperature:

0°C to 50°C (32°F to 122°F)

Storage Temperature:

-40°C to 70°C (-40°F to 158°F)

Operating Relative Humidity:

10% to 95% (non-condensing)

Power Specifications

X620-16x (Part # 17401)	AC Input: 100-240 V AC, 0.9A max. per PSU, 50/60 Hz DC Input: +24V/-48V, 3.3A max. per PSU
X620-16t (Part # 17402)	AC Input: 100-240 V AC, 1.2A max. per PSU, 50/60 Hz DC Input: +24V/-48V, 4.7A max. per PSU
X620-16p (Part # 17403)	AC Input: 100-240 V AC, 10A max. per PSU, 50/60 Hz
X620-10x (Part # 17404)	AC Input: 100-240 V AC, 0.5A max., 50/60 Hz
X620-8t-2x (Part # 17405)	AC Input: 100-240 V AC, 0.6A max., 50/60 Hz

Power Supply Options

X620-16x (Part # 17401) X620-16t (Part # 17402)	300W AC power supply: <ul style="list-style-type: none">300W AC PS FB (front to back), Part # 10930A300W AC PS BF (back to front), Part # 10943 300W DC power supply: <ul style="list-style-type: none">300W DC PS FB (front to back), Part # 10933300W DC PS BF (back to front), Part # 10944
X620-16p (Part # 17403)	750W AC power supply: <ul style="list-style-type: none">750W PoE AC PSU, Part # 10931

Switch Dimensions and Weight

X620-16x (Part # 17401)	Packaged: 16.9 cm (6.66 in.) H x 54.9 cm (21.63 in.) W x 58.2 cm (22.93 in.) L - Weight: 7.67 kg (16.91 lb.) Unpackaged: 4.4 cm (1.73 in.) H x 44.1 cm (17.38 in.) W x 43.0 cm (16.94 in.) L - Weight: 5.04 kg (11.11 lb.)
X620-16t (Part # 17402)	Packaged: 16.9 cm (6.66 in.) H x 54.9 cm (21.63 in.) W x 58.2 cm (22.93 in.) L - Weight: 8.07 kg (17.79 lb.) Unpackaged: 4.4 cm (1.73 in.) H x 44.1 cm (17.38 in.) W x 43.0 cm (16.94 in.) L - Weight: 5.46 kg (12.04 lb.)
X620-16p (Part # 17403)	Packaged: 16.9 cm (6.66 in.) H x 54.9 cm (21.63 in.) W x 58.2 cm (22.93 in.) L - Weight: 8.02 kg (17.68 lb.) Unpackaged: 4.4 cm (1.73 in.) H x 44.1 cm (17.38 in.) W x 43.1 cm (16.98 in.) L - Weight: 5.40 kg (11.90 lb.)
X620-10x (Part # 17404)	Packaged: 15.8 cm (6.23 in.) H x 38.5 cm (15.17 in.) W x 57.0 cm (22.46 in.) L - Weight: 4.10 kg (9.04 lb.) Unpackaged: 4.4 cm (1.73 in.) H x 30.5 cm (12.01 in.) W x 26.1 cm (10.28 in.) L - Weight: 2.74 kg (6.04 lb.)
X620-8t-2x (Part # 17405)	Packaged: 15.8 cm (6.23 in.) H x 38.5 cm (15.17 in.) W x 57.0 cm (22.46 in.) L - Weight: 4.27 kg (9.41 lb.) Unpackaged: 4.4 cm (1.73 in.) H x 30.5 cm (12.01 in.) W x 26.1 cm (10.28 in.) L - Weight: 2.89 kg (6.37 lb.)

Interfaces

Each X620 Series switch has a USB, management, and console port. The following table lists the specific interfaces for each switch.

X620-16x (Part # 17401)	X620 16 100Mb/1Gb/10GBASE-X SFP+ ports, 2 unpopulated power supply slots, 1 unpopulated fan module slot, ExtremeXOS Edge license
X620-16t (Part # 17402)	X620 12 100Mb/1Gb/10GBASE-T ports with EEE, 4 100Mb/1Gb/10GBASE-T with EEE shared with 4 100Mb/1Gb/10GBASE-T PoE+ and EEE shared with 4 1Gb/10GBASE-X SFP+ ports, 2 unpopulated power supply slots, 1 unpopulated Fan Module slot, ExtremeXOS Edge license
X620-16p (Part # 17403)	X620 12 100Mb/1Gb/2.5Gb/5Gb/10GBASE-T PoE ports (8 PoE++ and 4 POE+) with EEE, 4 100Mb/1Gb/10GBASE-T PoE+ ports with EEE shared with 4 1Gb/10GBASE-X SFP+ ports, 2 unpopulated power supply slots, 1 unpopulated Fan Module slot, ExtremeXOS Edge license
X620-10x (Part # 17404)	X620 10 100Mb/1Gb/10GBASE-X SFP+ ports, integrated power supply and fans, ExtremeXOS Edge license
X620-8t-2x (Part # 17405)	X620 8 100Mb/1Gb/10GBASE-T with EEE, and 2 100Mb/1Gb/10GBASE-X SFP+ ports, integrated power supply and fans, ExtremeXOS Edge license

Getting Help

For additional support related to X620 series switches or this document, contact Extreme Networks using one of the following methods:

Product Documentation	https://www.extremenetworks.com/documentation/
Global Technical Assistance Center (GTAC)	Phone: 1-800-998-2408 (toll-free in U.S. and Canada) or +1-408-579-2826. For the support phone number in your country, visit: http://www.extremenetworks.com/support/contact/
GTAC Knowledge	Get on-demand and tested resolutions from the GTAC Knowledgebase, or create a help case if you need more guidance. Visit: https://gtacknowledge.extremenetworks.com/
The Hub	A forum for Extreme customers to connect with one another, get questions answered, share ideas and feedback, and get problems solved. The community is monitored by Extreme Networks employees, but is not intended to replace specific guidance from GTAC. Visit: https://community.extremenetworks.com
Support Portal	Manage cases, downloads, service contracts, product licensing, and training and certifications. Visit: http://support.extremenetworks.com/

Notice

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For additional information on Extreme Networks trademarks, please see:

www.extremenetworks.com/company/legal/trademarks/

Warranty

Warranty information for X620 series switches is located online at:

www.extremenetworks.com/go/warranty

Regulatory and Compliance Information

Federal Communications Commission (FCC) Notice

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment uses, generates, and can radiate radio frequency energy and if not installed in accordance with the operator’s manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause interference in which case the user will be required to correct the interference at his own expense.

WARNING: Changes or modifications made to this device which are not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

Industry Canada Notice CAN ICES-3 (A)/NMB-3(A)

This digital apparatus does not exceed the class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n’émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la class A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

Class A ITE Notice

WARNING: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Product Safety

This product complies with the following international safety standards:

- UL 60950-1 2nd edition, A2:2014
- CAN/CSA-C22.2 No.60950-1-07 2nd Ed. 2014-10
- IEC 60950-1:2005 2nd+A1:2009+A2:2013
- EN 60950-1:2006+A11+A1+A12+A2
- 2014/35/EU (2006/95/EC will invalid by 20 April 2016)

Optical Module Compliance

Extreme Networks pluggable optical modules and direct-attach cables meet the following regulatory requirements:

- UL and/or CSA registered component for North America
- Class 1 or Class 1M Laser Product
- FCC 21 CFR Chapter 1, Sub-chapter J in accordance with FDA & CDRH requirements
- EN 60825-1:2007, EN 60825-2:2004+A1+A2 or later, European Standard
- Application of CE Mark in accordance with 2014/30/EU EMC Directive and 2014/35/EU Low Voltage Directive
- 47 CFR Part 15, Class A when installed into Extreme products

Korea EMC Statement (KCC)

이 기기는 업무용(A급) 전자파적합기기로서 판매자

또는 사용자는 이 점을 주의하시기 바라며, 가정

외의 지역에서 사용하는 것을 목적으로 합니다.

Australia (RCM)

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may require to take adequate measures.

Electromagnetic Compatibility (EMC)

This product complies with the following: FCC 47 CFR Part 15 Subpart B Class A (US), ICES-003 (Canada), EN 55022 (ITE Emissions), EN 55024 (ITE Immunity), EN 61000-3-2 (Harmonics), EN 61000-3-3 (Flicker), 2014/30/EU (EMC Directive), EN 300 386 (Telecom), EN 50121-1 (Railroad), EN 55011(ISM), EN 61000-6-2 (Ind. Immunity), EN 61000-6-4 Ind. Emissions), RCM (Australia), VCCI (Japan), MSIP KCC (Korea), BSMI (Taiwan), ANATEL (Brazil), CCC (China).

VCCI Notice

This is a Class A product based on the standard of the Voluntary Control Council for Interference by Information Technology Equipment (VCCI). If this equipment is used in a domestic environment, radio disturbance may arise. When such trouble occurs, the user may be required to take corrective actions.

この装置は、クラスA情報技術装置です。この装置を家庭環境で使用す

ると電波妨害を引き起こすことがあります。この場合には使用者が適切な

対策を講ずるよう要求されることがあります。

VCCI-A

BSMI EMC Statement — Taiwan

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

警告使用者:

此為甲類資訊技術設備・於居住環境中使用時・可能會造成射頻擾動・在此

種情況下・使用者會被要求採取某些適當的對策。

警告: 此为 A 级产品，在生活环境中，该产品可能会造

成无线电干扰。在这种情况下，可能需要用户对干扰

采取切实可行的措施。

Battery Warning — Taiwan

警告

如果更換不正確之電池型式會有爆炸的風險，

請依製造商說明書處理用過之電池。

Battery Notice



Warning: This product contains a battery used to maintain product information. If the battery should need replacement it must be replaced by Service Personnel. Please contact Technical Support for assistance.

Risk of explosion if battery is replaced by an incorrect type. Dispose of expended battery in accordance with local disposal regulations. **Avertissements:** Ce produit renferme une pile servant à conserver les renseignements sur le produit. Le cas échéant, faites remplacer la pile par le personnel du service de réparation. Veuillez communiquer avec l’assistance technique pour du soutien.

Il y a risque d’explosion si la pile est remplacée par un type de pile incorrect. Éliminez les piles usées en conformité aux règlements locaux d’élimination des piles.

Hazardous Substances- China and Taiwan BSMI RoHS

Guidance concerning the China and Taiwan BSMI RoHS (Restriction of Hazardous Substances) directive for this Extreme Networks® product can be found on the following web page:

www.extremenetworks.com/support/documentation/restriction-hazardous-substances/

The page contains tables detailing the presence of 10 substances defined by the RoHS directive.

Hazardous Substances - EU

This product complies with the requirements of Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

European Waste Electrical and Electronic Equipment (WEEE) Notice



■■■■■

In accordance with Directive 2012/19/EU of the European Parliament on waste electrical and electronic equipment (WEEE):

- The symbol above indicates that separate collection of electrical and electronic equipment is required.
- When this product has reached the end of its serviceable life, it cannot be disposed of as unsorted municipal waste. It must be collected and treated separately.
- It has been determined by the European Parliament that there are potential negative effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment.
- It is the users’ responsibility to utilize the available collection system to ensure WEEE is properly treated. For information about the available collection system, please contact Extreme Customer Support at +353 61 705500 (Ireland).